

New Records of the Supralittoral Species of the Genus *Cercyon* (Coleoptera, Hydrophilidae) from the Peripheral Islands off Hokkaido, Japan

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Abstract Six supralittoral species of the genus *Cercyon* (*Cercyon*), *C. (C.) aptus*, *C. (C.) algarum*, *C. (C.) dux*, *C. (C.) numerosus*, *C. (C.) setulosus*, and *C. (C.) symbion*, are recorded for the first time from the peripheral Islands off Hokkaido, Japan.

Terrestrial hydrophilid beetles from Eastern Asia are rather poorly known. Despite the recent works by SHATROVSKIY (1989, 1992) and ÔHARA & JIA (2006), their distribution in the region remains unsatisfactorily studied. Under a series of taxonomic studies on the supralittoral species of the genus *Cercyon*, I have had the opportunity to examine specimens housed in the collection of the Systematic Entomology, Hokkaido University Museum, and also to collect them myself from under sea weed on the shore line of the peripheral islands off Hokkaido, Japan. The islands in question are Rebun-tô, Rishiri-tô, Teuri-tô, Yagishiri-tô, Okushiri-tô and Daikoku-jima Islands (Fig. 1). Six species, *Cercyon (Cercyon) aptus*, *C. (C.) algarum*, *C. (C.) dux*, *C. (C.) numerosus*, *C. (C.) setulosus* and *C. (C.) symbion* are newly recorded from the islands, and their records are presented herein.

Collecting data. Locality (Fig. 1) — Japan: off Hokkaido. Beach profile — SA: sandy beach. SH: shingle beach. CO: cobble beach.

[Rishiri-tô] RI-94-MO-001/CO: Fujino (45° 15' 17" N 141° 12' 07" E), Kutsugata, 26–VII–1994, M. ÔHARA leg., under sea weed. RI-94-MO-002/SA: Kanesaki (45° 08' 01" N 141° 18' 27" E), Oniwaki, 28–VII–1994, M. ÔHARA leg., under sea weed on sandy beach.

[Rebun-tô] RE-94-MO-005/SA: Ôsawa (45° 25' 59" N 141° 00' 49" E), Funadomari, 27–VII–1994, M. ÔHARA leg., under sea weed on sandy beach.

[Teuri-tô] TE-08-MO-006/SH: Maehama (44° 25' 55" N 141° 20' 08" E), 14–VI–2008, M. ÔHARA leg., under sea weed. TE-08-MO-007/SH-CO: Aikage (44° 25' 07" N 141° 19' 16" E), 15–VI–2008, M. ÔHARA leg., under sea weed.

[Yagishiri-tô] YA-08-MO-010/SH: Yagishiri (44° 26' 02" N 141° 25' 41" E), 16–VI–2008, M. ÔHARA leg., under sea weed.

[Okushiri-tô] OK-08-MO-014/SH-CO: Okushiri ($42^{\circ}10'12''\text{N}$ $139^{\circ}31'00''\text{E}$), 12-VII-2008, M. ÔHARA leg., under sea weed. OK-08-MO-015/SA: Tomisato ($42^{\circ}04'18''\text{N}$ $139^{\circ}28'17''\text{E}$), 13-VII-2008, M. ÔHARA leg., under sea weed. OK-08-MO-016/SA-SH: Monai ($42^{\circ}06'00''\text{N}$ $133^{\circ}25'30''\text{E}$), 13-VII-2008, M. ÔHARA leg., under sea weed. OK-08-MO-018/SA: Yamase-domari ($42^{\circ}12'03''\text{N}$ $139^{\circ}32'24''\text{E}$), 13-VII-2008, M. ÔHARA leg., under sea weed on sandy beach.

[Daikoku-jima] DA-05-MO-001/SH-CO: $42^{\circ}57.39'\text{N}$ $144^{\circ}52.11'\text{E}$, 12-VII-2005, M. ÔHARA leg. DA-05-MO-005/SH-CO: $42^{\circ}57.39'\text{N}$ $144^{\circ}52.11'\text{E}$, 12-VII-2005, M. ÔHARA leg. DA-05-MO-006/SH: $42^{\circ}57.59'\text{N}$ $144^{\circ}52.28'\text{E}$, 12-VII-2005, M. ÔHARA leg. DA-05-MO-007/SA: $42^{\circ}57.75'\text{N}$ $144^{\circ}52.34'\text{E}$, 13-VII-2005, M. ÔHARA leg. DA-05-MO-009/SH-CO: $42^{\circ}57.39'\text{N}$ $144^{\circ}52.11'\text{E}$, 30-VII-2005, M. ÔHARA leg., from under sea weed. DA-08-MO-025/SA: $42^{\circ}57'47''\text{N}$ $144^{\circ}52'20''\text{E}$, 13-VIII-2008, M. ÔHARA leg., from under sea weed (*Laminaria*, *Sarrugasum*) and eel grass (*Zostera*).

Cercyon (Cercyon) algarum SHARP, 1873

Cercyon algarum SHARP, 1873, 65 [Japan: Kyushu (Nagasaki: Amakusa)]. — SATÔ, 1989, 242 [Hokkaido,

Honshu, Izu Islands (Hachijô-jima), Kyushu]. — SHATROVSKIY, 1989, 281.

Cercyon (Cyceron) algarum: SHATROVSKIY, 1992, 366 [Kunashir].

Cercyon (Cercyon) algarum: HANSEN, 1999, 275.

Specimens examined. RI-94-MO-001/CO (14 exs.); RI-94-MO-002/SA (1 ex.); TE-08-MO-006/SH (2 exs.); TE-08-MO-007/SH-CO (22 exs.); YA-08-MO-010/SH (24 exs.); OK-08-MO-015/SA (11 exs.); OK-08-MO-016/SA-SH (19 exs.); DA-08-MO-025/SA (9 exs.).

Distribution. Japan (Hokkaido: proper, Rishiri-tô, Teuri-tô, Yagishiri-tô, Okushiri-tô, Daikoku-jima; Honshu; Shikoku; Izu Is.: Hachijô-jima; Kyushu). Kuril Islands (Kunashir). New to Rishiri-tô, Teuri-tô, Yagishiri-tô, Okushiri-tô and Daikoku-jima.

Cercyon (Cercyon) aptus SHARP, 1873

Cercyon aptus SHARP, 1873, 65 [Japan: Honshu and Kyushu]. — SATÔ, 1989, 242 [Shikoku]. — KILS, 1999, 177 [Hokkaido].

Cercyon (Cercyon) aptus: ÔHARA & JIA, 2006, 131.

Specimens examined. RI-94-MO-002/SA (1 ex.); RE-94-MO-005/SA (14 exs.); OK-08-MO-018/SA (25 exs.); DA-08-MO-025/SA (10 exs.).

Distribution. Japan (Hokkaido: proper, Rishiri-tô, Rebun-tô, Okushiri-tô, Daikoku-jima; Honshu; Shikoku; Kyushu). Kuril Islands (Kunashir, Itrup, Urup, Chirpoi). New to Rishiri-tô, Rebun-tô, Okushiri-tô and Daikoku-jima.

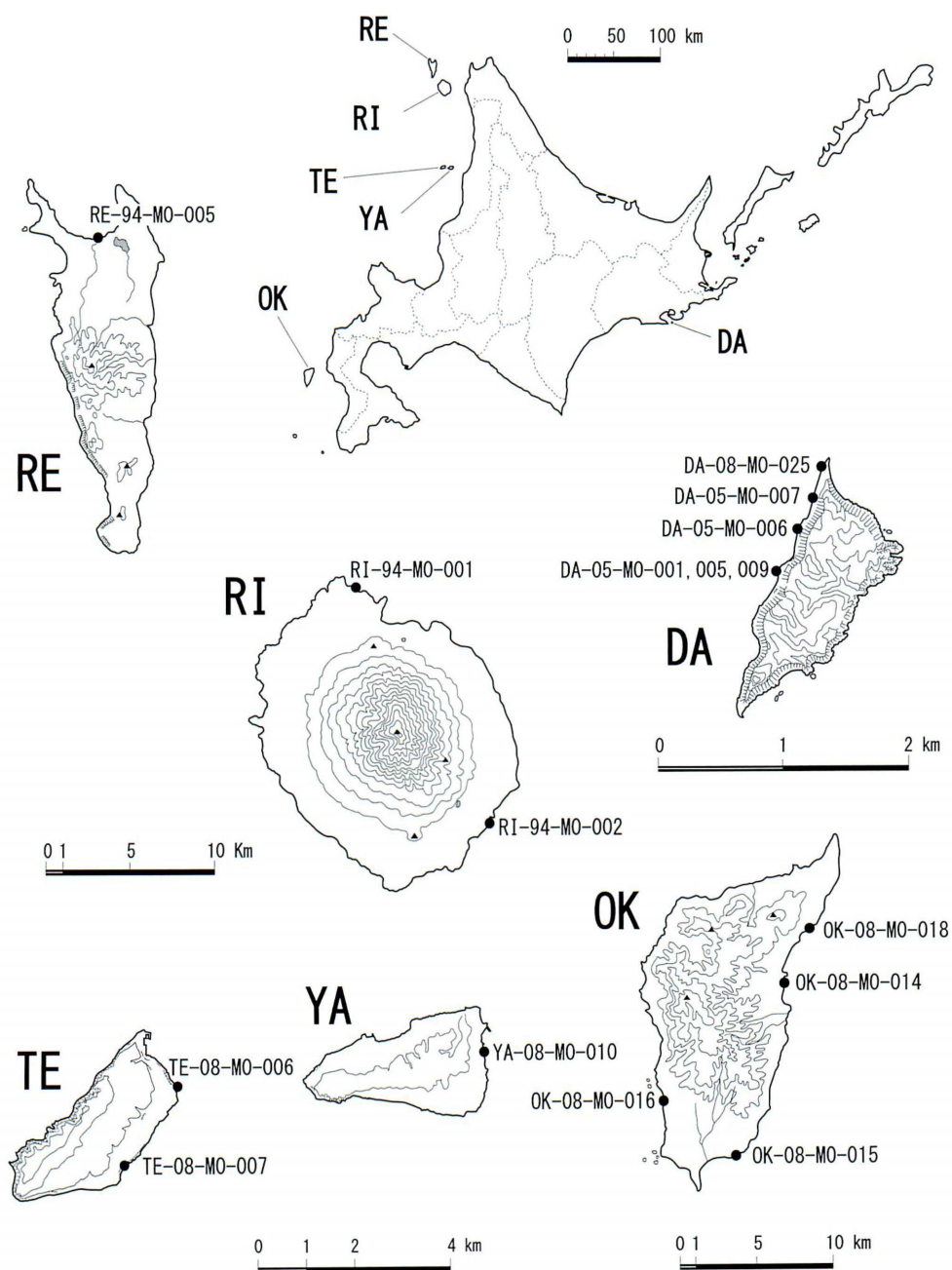


Fig. 1. Map showing the collecting sites on the peripheral islands off Hokkaido, Japan. — RI: Rishiri-tô; RE: Rebun-tô; TE: Teuri-tô; YA: Yagishiri-tô; OK: Okushiri-tô; DA: Daikoku-jima.

Table 1. Distribution of the supralittoral species of the genus *Cercyon* from the peripheral islands off Hokkaido, Japan. The species are ordered alphabetically.

	RI	RE	TE	YA	OK	DA
<i>Cercyon (Cercyon) algarum</i>	●		●	●	●	●
<i>C. (C.) aptus</i>	●	●			●	●
<i>C. (C.) dux</i>	●	●	●	●	●	●
<i>C. (C.) numerosus</i>	●				●	●
<i>C. (C.) setulosus</i>	●		●	●		●
<i>C. (C.) symbion</i>	●					●

RI: Rishiri-tô [利尻島]; RE: Rebun-tô [礼文島]; TE: Teuri-tô [天売島]; YA: Yagishiri-tô [焼尻島]; OK: Okushiri-tô [奥尻島]; DA: Daikoku-jima [大黒島].

Cercyon (Cercyon) dux SHARP, 1873

Cercyon dux SHARP, 1873, 65 [Japan: Kyushu (Nagasaki: Amakusa)]. — SATÔ, 1981, 213 [Hokkaido, Honshu, Shikoku, Kyushu]; 1989, 243 [Kyushu: Oki-no-shima].

Cercyon (Cyceron) dux: SHATROVSKIY, 1992, 366.

Cercyon (Cercyon) dux: HANSEN, 1999, 278.

Specimens examined. RI-94-MO-001/CO (2 exs.); RI-94-MO-002/SA (1 ex.); RE-94-MO-005/SA (2 exs.); 1 ex., Rebun Is., 22-VI-1996, S. AKIMOTO, under sea weed; TE-08-MO-006/SH (5 exs.); TE-08-MO-007/SH-CO (23 exs.); YA-08-MO-010/SH (3 exs.); OK-08-MO-014/SH-CO (3 exs.); OK-08-MO-015/SA (16 males and 17 females); OK-08-MO-016/SA-SH (4 males and 4 females); DA-05-MO-001/SH-CO (4 males and 2 females); DA-05-MO-005/SH-CO (3 males); DA-08-MO-025/SA (2 males and 1 female); Daikoku-jima, 30-VII-2005, T. ITO (1 male and 1 female).

Distribution. Japan (Hokkaido: proper, Rishiri-tô, Rebun-tô, Teuri-tô, Yagishiri-tô, Okushiri-tô, Daikoku-jima; Honshu; Shikoku; Izu Is.: Hachijô-jima; Kyushu: proper, Oki-no-shima). Southern Kurils (?). New to Rishiri-tô, Rebun-tô, Teuri-tô, Yagishiri-tô, Okushiri-tô and Daikoku-jima.

Cercyon (Cercyon) numerosus SHATROVSKIY, 1989

Cercyon numerosus: KILS, 1999, 177 [Hokkaido].

Cercyon (Cercyon) numerosus: ÔHARA & JIA, 2006, 134.

Specimens examined. RI-94-MO-002/SA (5 males); OK-08-MO-014/SH-CO (4 males); DA-05-MO-001/SH-CO (2 males); DA-05-MO-006/SH (2 males); DA-05-MO-009/SH-CO (2 males).

Distribution. Japan (Hokkaido: proper, Rishiri-tô, Okushiri-tô and Daikoku-jima; Kyushu); Kuril Islands (Urup, Chirpoi, Simushir); Russian Fed. (Far East). New to Rishiri-tô, Okushiri-tô and Daikoku-jima.

Cercyon (Cercyon) setulosus SHARP, 1884

Cercyon setulosus SHARP, 1884, 458 [Japan]. — SATÔ, 1989, 243 [Hokkaido, Honshu, Tsushima Islands].
Cercyon (Cercyon) setulosus: ÔHARA & JIA, 2006, 139.

Specimens examined. RI-94-MO-001/CO (8 exs.); RI-94-MO-002/SA (10 exs.); TE-08-MO-007/SH-CO (1 ex.); YA-08-MO-010/SH (20 exs.); DA-05-MO-001/SH-CO (4 exs.); DA-05-MO-005/SH-CO (29 exs. and 1 male); DA-05-MO-006/SH (2 exs.); DA-05-MO-007/SA (1 ex.); DA-05-MO-009/SH-CO (1 ex.); DA-08-MO-025/SA (8 exs.).

Distribution. Japan (Hokkaido: proper, Rishiri-tô, Teuri-tô, Yagishiri-tô, Daikoku-jima; Honshu; Tsushima Isls.). Russian Fed. (Far East: Primorsky Kray). Kuril Islands (Shikotan, Kunashir, Urup, Ekarma). New to Rishiri-tô, Teuri-tô, Yagishiri-tô and Daikoku-jima.

Cercyon (Cercyon) symbion SHATROVSKIY, 1989

Cercyon symbion: KILS, 1999, 177 [Hokkaido].
Cercyon (Cercyon) symbion: ÔHARA & JIA, 2006, 140.

Specimens examined. RI-94-MO-002/SA (2 males); DA-05-MO-001/SH-CO (1 male); DA-05-MO-005/SH-CO (5 males).

Distribution. Japan (Hokkaido: proper, Rishiri-tô, Daikoku-jima; Kyushu). Kuril Islands (Shikotan, Kunashir, Itrup, Urup, Alaid, Kharimkotan, Paramushir, Shumushu). Russian Fed. (Primorskiy Kray, Sakhalin). New to Rishiri-tô and Daikoku-jima.

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要 約

大原昌宏: 北海道周辺の島々における海浜性ケシガムシ属(鞘翅目, ガムシ科)の分布記録。
 —— 北海道周辺の利尻島, 礼文島, 天売島, 焼尻島, 奥尻島, 大黒島を調査し, 海浜性ケシガムシ属 *Cercyon* の 6 種, コケシガムシ *Cercyon (Cercyon) aptus*, ヒメケシガムシ *C. (C.) algarum*, フチトリケシガムシ *C. (C.) dux*, エゾケシガムシ *C. (C.) numerosus*, ナガケシガムシ *C. (C.) setu-*

losus, キタケシガムシ *C. (C.) symbion* について, 島別の分布を記録した.

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